## JSC370 2022: Midterm Project

## Due Thursday, March 3rd by 11:59pm Eastern Time

**Learning Objective** To apply the skills learned in JSC 370 (up to February 17th) by analyzing and interpreting a dataset of your choice.

Narrative Through this project you will launch a portfolio of data science projects that will become seminal for your job hunt. This midterm is a stepping stone for the final project. The first step in any data analysis is to have a dataset for which you have formulated an interesting question. If you do not have a dataset to work with, you may choose one from our list of suggestions. With your dataset, formulate a clear and concise question to answer and conduct exploratory data analysis, and data visualization to explore/answer this question.

**Deliverable**: A knitted R markdown *written report* (.html or .pdf) with embedded tables and figures that is submitted to a project-specific github repository that you create. The report should have the following sections:

- Introduction (provide background on your dataset and formulated question),
- Methods (include how and where the data were acquired, how you cleaned and wrangled the data, what tools you used for data exploration),
- Preliminary Results (provide summary statistics in tabular form and publication-quality figures, take a look at the kable function from knitr to write nice tables in Rmarkdown),
- Conclusion/summary about what you found in terms of the formulated question.

In your report, please do not include unformatted output or dataset summaries (e.g. output from head(), str(), etc.). You should summarize these aspects of your data within the text.